Journal of Tribology

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, D indicates Discussion, BR indicates Book Review, and E indicates Errata

Abu Omar, T. M. — (see Sherif, H. A.) **123,** 230–233(TB)
Ahmed, R., and Sutcliffe, M. P. F. — An Experimental Investigation of Surface Pit Evolution During Cold-Rolling or Drawing of Stainless Steel Strip. **123,** 1–7
____ (see Sutcliffe, M. P. F.) **123,** 791–798
Akalin, Ozgen, and Newaz, Golam M. — Piston Ring-Cylinder Bore Friction Modeling in Mixed Lubrication Regime: Part I—Analytical Results. **123,** 211–218
____ **, and Newaz, Golam M.** — Piston Ring-Cylinder Bore Friction Modeling in Mixed Lubrication Regime: Part II—Correlation With Bench Test Data. **123,** 219–223
Alanou, M. P. — (see Krantz, T. L.) **123,** 709–716
Al Bahkali, E. — (see Zagrodzki, P.) **123,** 699–708
Andreasen, Jan L. — (see Shimizu, Ichiro) **123,** 290–294
Angra, S. — (see Sehgal, Rakesh) **123,** 486–493
Arakere, Nagaraj K., and Swanson, Gregory — Fretting Stresses in Single Crystal Superalloy Turbine Blade Attachments. **123,** 413–423
Arghir, Mihai, and Frêne, Jean — A Triangle Based Finite Volume Method for the Integration of Lubrication's Incompressible Bulk Flow Equations. **123,** 118–124
Aung, W. — (see Mansouri, M.) **123,** 313–323

Bai, Mingwu, and Kato, Koji — Analysis of Contact Deformation and Stiction Between Textured Disk and Textured Slider. **123,** 350–357
Bair, Scott — The Pressure-Viscosity Coefficient of a Perfluorinated Polyether Over a Wide Temperature Range. **123,** 50–53
____ The Variation of Viscosity With Temperature and Pressure for Various Real Lubricants. **123,** 433–436(TB)
Barber, J. R. — (see Zagrodzki, P.) **123,** 699–708
Barnsby, Roger M. — (see Green, Itzhak) **123,** 388–394
Bay, Niels — (see Shimizu, Ichiro) **123,** 290–294
Bech, Jakob I. — (see Shimizu, Ichiro) **123,** 290–294
Bhatia, C. Singh — (see Chen, Chao-Yuan) **123,** 364–367
Bhushan, Bharat — (see Peng, Wei) **123,** 330–342
Blake, Jonathan J. — (see Truman, Christopher E.) **123,** 243–247
Blanchet, Thierry A. — (see Sawyer, W. Gregory) **123,** 572–581
Bogy, David B. — (see Chen, Chao-Yuan) **123,** 364–367
Booker, J. F. — (see Olson, E. G.) **123,** 462–468
Breuer, K. S. — (see Savoulides, N.) **123,** 368–375

Chang, L., Zhao, Yongwu, Hall, P. B., Thom, R., and Moore, C. — On Heat Generation in Rolling Contacts Under Boundary and Mixed Lubrication. **123,** 61–66
____ (see Zhao, Yongwu) **123,** 857–864
Chang, Qiuying — (see Yang, Peiran) **123,** 36–41
Chao, Jim — (see Wang, Larry Y.) **123,** 376–379
Chen, Cha'o-Kùang — (see Wang, Cheng-Chi) **123,** 755–767
Chen, Chao-Yuan, Bogy, David B., and Bhatia, C. Singh — Effects of Backbone and Endgroup on the Decomposition Mechanisms of PFPE Lubricants and Their Tribological Performance at the Head-Disk Interface. **123,** 364–367
Chen, Guoxu — (see Qiu, Sunqing) **123,** 441–443
Chilamakuri, Sameera K. — (see Gupta, B. K.) **123,** 380–387
Choi, Dong-Hoon, and Yoon, Ki-Chan — A Design Method of an Automotive Wheel-Bearing Unit With Discrete Design Variables Using Genetic Algorithms. **123,** 181–187
____ (see Kang, Tae-Sik) **123,** 541–547
Chung, D. D. L. — (see Luo, Xiangcheng) **123,** 682–685
Ciaverella, M. — (see Decuzzi, P.) **123,** 865–871
Colin, F., and Lubrecht, A. A. — Comparison of FFT-MLMI for Elastic Deformation Calculations. **123,** 884–887(TB)
Conway, J. C. — (see Goldman, R. W.) **123,** 676–681

Danos, J. C. — (see Tournerie, B.) **123,** 196–204
Decuzzi, P., Ciaverella, M., and Monno, G. — Frictionally Excited Thermoelastic Instability in Multi-Disk Clutches and Brakes. **123,** 865–871
Deng, Zhi — (see Morrow, Clint) **123,** 436–440(TB)
de Rooij, M. B., and Schipper, D. J. — Analysis of Material Transfer From a Soft Workpiece to a Hard Tool: Part I—Lump Growth Model. **123,** 469–473
____ **, and Schipper, D. J.** — Analysis of Material Transfer From a Soft Workpiece to a Hard Tool: Part II—Experimental Verification of the Proposed Lump Growth Model. **123,** 474–478
Diaz, Sergio, and San Andrés, Luis — A Model for Squeeze Film Dampers Operating With Air Entrainment and Validation With Experiments. **123,** 125–133
Dong, Daming — (see Muraki, Masayoshi) **123,** 54–60
Dong, Junxiu — (see Qiu, Sunqing) **123,** 441–443
Drinkwater, B. W. — (see Dwyer-Joyce, R. S.) **123,** 8–16
Dwyer-Joyce, R. S., Drinkwater, B. W., and Quinn, A. M. — The Use of Ultrasound in the Investigation of Rough Surface Interfaces. **123,** 8–16

Edidin, Avram A. — (see Giddings, Virginia L.) **123,** 842–847
Ehrich, F. F. — (see Savoulides, N.) **123,** 368–375
Elsharkawy, Abdallah A., and Guedouar, Lotfi H. — Direct and Inverse Solutions for Elastohydrodynamic Lubrication of Finite Porous Journal Bearings. **123,** 276–282
Etsion, I. — (see Groper, M.) **123,** 494–500
Evans, H. P. — (see Kong, S.) **123,** 268–275
____ (see Krantz, T. L.) **123,** 709–716

Faria, Marco Tulio C. — An Efficient Finite Element Procedure for Analysis of High-Speed Spiral Groove Gas Face Seals. **123,** 205–210
Farris, T. N. — (see Goryacheva, I. G.) **123,** 848–856
Frêne, J. — (see Tournerie, B.) **123,** 196–204
Frêne, Jean — (see Arghir, Mihai) **123,** 118–124

Gandhi, O. P. — (see Sehgal, Rakesh) **123,** 486–493

Journal of Tribology

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, D indicates Discussion, BR indicates Book Review, and E indicates Errata

Abu Omar, T. M. — (see Sherif, H. A.) **123,** 230–233(TB)
Ahmed, R., and Sutcliffe, M. P. F. — An Experimental Investigation of Surface Pit Evolution During Cold-Rolling or Drawing of Stainless Steel Strip. **123,** 1–7
____ (see Sutcliffe, M. P. F.) **123,** 791–798
Akalin, Ozgen, and Newaz, Golam M. — Piston Ring-Cylinder Bore Friction Modeling in Mixed Lubrication Regime: Part I—Analytical Results. **123,** 211–218
____ **, and Newaz, Golam M.** — Piston Ring-Cylinder Bore Friction Modeling in Mixed Lubrication Regime: Part II—Correlation With Bench Test Data. **123,** 219–223
Alanou, M. P. — (see Krantz, T. L.) **123,** 709–716
Al Bahkali, E. — (see Zagrodzki, P.) **123,** 699–708
Andreasen, Jan L. — (see Shimizu, Ichiro) **123,** 290–294
Angra, S. — (see Sehgal, Rakesh) **123,** 486–493
Arakere, Nagaraj K., and Swanson, Gregory — Fretting Stresses in Single Crystal Superalloy Turbine Blade Attachments. **123,** 413–423
Arghir, Mihai, and Frêne, Jean — A Triangle Based Finite Volume Method for the Integration of Lubrication's Incompressible Bulk Flow Equations. **123,** 118–124
Aung, W. — (see Mansouri, M.) **123,** 313–323

Bai, Mingwu, and Kato, Koji — Analysis of Contact Deformation and Stiction Between Textured Disk and Textured Slider. **123,** 350–357
Bair, Scott — The Pressure-Viscosity Coefficient of a Perfluorinated Polyether Over a Wide Temperature Range. **123,** 50–53
____ The Variation of Viscosity With Temperature and Pressure for Various Real Lubricants. **123,** 433–436(TB)
Barber, J. R. — (see Zagrodzki, P.) **123,** 699–708
Barnsby, Roger M. — (see Green, Itzhak) **123,** 388–394
Bay, Niels — (see Shimizu, Ichiro) **123,** 290–294
Bech, Jakob I. — (see Shimizu, Ichiro) **123,** 290–294
Bhatia, C. Singh — (see Chen, Chao-Yuan) **123,** 364–367
Bhushan, Bharat — (see Peng, Wei) **123,** 330–342
Blake, Jonathan J. — (see Truman, Christopher E.) **123,** 243–247
Blanchet, Thierry A. — (see Sawyer, W. Gregory) **123,** 572–581
Bogy, David B. — (see Chen, Chao-Yuan) **123,** 364–367
Booker, J. F. — (see Olson, E. G.) **123,** 462–468
Breuer, K. S. — (see Savoulides, N.) **123,** 368–375

Chang, L., Zhao, Yongwu, Hall, P. B., Thom, R., and Moore, C. — On Heat Generation in Rolling Contacts Under Boundary and Mixed Lubrication. **123,** 61–66
____ (see Zhao, Yongwu) **123,** 857–864
Chang, Qiuying — (see Yang, Peiran) **123,** 36–41
Chao, Jim — (see Wang, Larry Y.) **123,** 376–379
Chen, Cha'o-Kùang — (see Wang, Cheng-Chi) **123,** 755–767
Chen, Chao-Yuan, Bogy, David B., and Bhatia, C. Singh — Effects of Backbone and Endgroup on the Decomposition Mechanisms of PFPE Lubricants and Their Tribological Performance at the Head-Disk Interface. **123,** 364–367
Chen, Guoxu — (see Qiu, Sunqing) **123,** 441–443
Chilamakuri, Sameera K. — (see Gupta, B. K.) **123,** 380–387
Choi, Dong-Hoon, and Yoon, Ki-Chan — A Design Method of an Automotive Wheel-Bearing Unit With Discrete Design Variables Using Genetic Algorithms. **123,** 181–187
____ (see Kang, Tae-Sik) **123,** 541–547
Chung, D. D. L. — (see Luo, Xiangcheng) **123,** 682–685
Ciaverella, M. — (see Decuzzi, P.) **123,** 865–871
Colin, F., and Lubrecht, A. A. — Comparison of FFT-MLMI for Elastic Deformation Calculations. **123,** 884–887(TB)
Conway, J. C. — (see Goldman, R. W.) **123,** 676–681

Danos, J. C. — (see Tournerie, B.) **123,** 196–204
Decuzzi, P., Ciaverella, M., and Monno, G. — Frictionally Excited Thermoelastic Instability in Multi-Disk Clutches and Brakes. **123,** 865–871
Deng, Zhi — (see Morrow, Clint) **123,** 436–440(TB)
de Rooij, M. B., and Schipper, D. J. — Analysis of Material Transfer From a Soft Workpiece to a Hard Tool: Part I—Lump Growth Model. **123,** 469–473
____ **, and Schipper, D. J.** — Analysis of Material Transfer From a Soft Workpiece to a Hard Tool: Part II—Experimental Verification of the Proposed Lump Growth Model. **123,** 474–478
Diaz, Sergio, and San Andrés, Luis — A Model for Squeeze Film Dampers Operating With Air Entrainment and Validation With Experiments. **123,** 125–133
Dong, Daming — (see Muraki, Masayoshi) **123,** 54–60
Dong, Junxiu — (see Qiu, Sunqing) **123,** 441–443
Drinkwater, B. W. — (see Dwyer-Joyce, R. S.) **123,** 8–16
Dwyer-Joyce, R. S., Drinkwater, B. W., and Quinn, A. M. — The Use of Ultrasound in the Investigation of Rough Surface Interfaces. **123,** 8–16

Edidin, Avram A. — (see Giddings, Virginia L.) **123,** 842–847
Ehrich, F. F. — (see Savoulides, N.) **123,** 368–375
Elsharkawy, Abdallah A., and Guedouar, Lotfi H. — Direct and Inverse Solutions for Elastohydrodynamic Lubrication of Finite Porous Journal Bearings. **123,** 276–282
Etsion, I. — (see Groper, M.) **123,** 494–500
Evans, H. P. — (see Kong, S.) **123,** 268–275
____ (see Krantz, T. L.) **123,** 709–716

Faria, Marco Tulio C. — An Efficient Finite Element Procedure for Analysis of High-Speed Spiral Groove Gas Face Seals. **123,** 205–210
Farris, T. N. — (see Goryacheva, I. G.) **123,** 848–856
Frêne, J. — (see Tournerie, B.) **123,** 196–204
Frêne, Jean — (see Arghir, Mihai) **123,** 118–124

Gandhi, O. P. — (see Sehgal, Rakesh) **123,** 486–493

Giddings, Virginia L., Kurtz, Steven M., and Edidin, Avram A. — Total Knee Replacement Polyethylene Stresses During Loading in a Knee Simulator. **123,** 842–847
Glavatskikh, Sergei B. — Steady State Performance Characteristics of a Tilting Pad Thrust Bearing. **123,** 608–615
Glovnea, R. P., and Spikes, H. A. — Elastohydrodynamic Film Collapse During Rapid Deceleration. Part I—Experimental Results. **123,** 254–261
_____, **and Spikes, H. A.** — Elastohydrodynamic Film Collapse During Rapid Deceleration. Part II—Theoretical Analysis and Comparison of Theory and Experiment. **123,** 262–267
Goldman, R. W., Segall, A. E., and Conway, J. C. — The Dry Sliding Behavior of Aluminum Alloys Against Steel in Sheave Wheel Applications. **123,** 676–681
Goryacheva, I. G., Rajeev, P. T., and Farris, T. N. — Wear in Partial Slip Contact. **123,** 848–856
Green, Itzhak, and Barnsby, Roger M. — A Simultaneous Numerical Solution for the Lubrication and Dynamic Stability of Noncontacting Gas Face Seals. **123,** 388–394
_____ (see Miller, Brad A.) **123,** 395–403
Groper, M., and Etsion, I. — The Effect of Shear Flow and Dissolved Gas Diffusion on the Cavitation in a Submerged Journal Bearing. **123,** 494–500
Guedouar, Lotfi H. — (see Elsharkawy, Abdallah A.) **123,** 276–282
Guo, Feng, Yang, Peiran, and Qu, Shiyue — On the Theory of Thermal Elastohydrodynamic Lubrication at High Slide-Roll Ratios—Circular Glass-Steel Contact Solution at Opposite Sliding. **123,** 816–821
_____ (see Yang, Peiran) **123,** 36–41
Gupta, B. K., Young, Kenneth, Chilamakuri, Sameera K., and Menon, Aric K. — On the Thermal Behavior of Giant Magnetoresistance Heads. **123,** 380–387

Ha, Hyun Cheon — Preload Effects of a Guide Bearing on the Metal Temperature and the Shaft Vibration. **123,** 144–150
Hahn, G. T. — (see Iyer, K.) **123,** 686–698
Hall, P. B. — (see Chang, L.) **123,** 61–66
Hamrock, Bernard J. — (see Hsiao, Hsing-Sen S.) **123,** 603–607
Harp, Susan R., and Salant, Richard F. — An Average Flow Model of Rough Surface Lubrication With Inter-Asperity Cavitation. **123,** 134–143
Harris, Tedric A. — (see Kotzalas, Michael N.) **123,** 238–242
Hashimoto, H., and Matsumoto, K. — Improvement of Operating Characteristics of High-Speed Hydrodynamic Journal Bearings by Optimum Design: Part I— Formulation of Methodology and Its Application to Elliptical Bearing Design. **123,** 305–312
Hashimoto, Hiromu, and Nakagawa, Haruyasu — Improvement of Web Spacing and Friction Characteristics by Two Types of Stationary Guides. **123,** 509–516
Hayashi, Takefumi — (see Tagawa, Norio) **123,** 151–158
Heshmat, Hooshang — (see Higgs, C. Fred, III) **123,** 455–461
_____ (see Salehi, Mohsen) **123,** 566–571
Higgs, C. Fred, III, and Heshmat, Hooshang — Characterization of Pelletized MoS_2 Powder Particle Detachment Process. **123,** 455–461
Hoeprich, Michael H. — (see Zhao, Jiaxin) **123,** 67–74
_____ (see Zhao, Jiaxin) **123,** 75–82
Holgerson, M. — (see Mansouri, M.) **123,** 313–323
Horng, Jeng-Haur — (see Jeng, Yeau-Ren) **123,** 725–731
Hou, Z. B. — (see Komanduri, R.) **123,** 799–815
Houpert, Luc — An Engineering Approach to Hertzian Contact Elasticity—Part I. **123,** 582–588
_____ An Engineering Approach to Non-Hertzian Contact Elasticity—Part II. **123,** 589–594
Hryniewicz, P., Szeri, A. Z., and Jahanmir, S. — Application of Lubrication Theory to Fluid Flow in Grinding: Part I—Flow Between Smooth Surfaces. **123,** 94–100
_____, **Szeri, A. Z., and Jahanmir, S.** — Application of Lubrication Theory to Fluid Flow in Grinding: Part II—Influence of Wheel and Workpiece Roughness. **123,** 101–107
Hsiao, Hsing-Sen S. — Optimum Dimensional Analysis With Applications to Elastohydrodynamic Lubrication. **123,** 822–827
_____, **Hamrock, Bernard J., and Tripp, John H.** — Stream Functions and Streamlines for Visualizing and Quantifying Side Flows in EHL of Elliptical Contacts. **123,** 603–607
Hua, Wei — (see Sheng, Gang) **123,** 655(D)
Huang, Fu-Ying — (see Wang, Run-Han) **123,** 561–565

Iida, Kohei, and Ono, Kyosuke — Analysis of Bouncing Vibrations of a 2-DOF Model of Tripad Contact Slider Over a Random Wavy Disk Surface. **123,** 159–167
Ishida, Sakiko — (see Mitsuya, Yasunaga) **123,** 188–195
Iyer, K., Rubin, C. A., and Hahn, G. T. — Influence of Interference and Clamping on Fretting Fatigue in Single Rivet-Row Lap Joints. **123,** 686–698

Jacobson, S. — (see Savoulides, N.) **123,** 368–375
Jacod, B., Venner, C. H., and Lugt, P. M. — A Generalized Traction Curve for EHL Contacts. **123,** 248–253
Jahanmir, S. — (see Hryniewicz, P.) **123,** 94–100
_____ (see Hryniewicz, P.) **123,** 101–107
Jeng, Yeau-Ren, and Horng, Jeng-Haur — A Microcontact Approach for Ultrasonic Wire Bonding in Microelectronics. **123,** 725–731
Jeong, Tae-Gun — (see Kang, Tae-Sik) **123,** 541–547
Joseph, D. D. — (see Pereira, A.) **123,** 742–754

Kalin, M. — (see Podgornik, B.) **123,** 670–675
Kaneta, M. — (see Yang, P.) **123,** 42–49
Kang, Tae-Sik, Choi, Dong-Hoon, and Jeong, Tae-Gun — Optimal Design of HDD Air-Lubricated Slider Bearings for Improving Dynamic Characteristics and Operating Performance. **123,** 541–547
Kato, Koji — (see Bai, Mingwu) **123,** 350–357
Kato, Takahisa, Watanabe, Souta, and Matsuoka, Hiroshige — Dynamic Characteristics of an In-Contact Headslider Considering Meniscus Force: Part 2—Application to the Disk With Random Undulation and Design Conditions. **123,** 168–174
Keer, Leon M. — (see Liu, Shuangbiao) **123,** 479–485
Keogh, P. S., and Khonsari, M. M. — Influence of Inlet Conditions on the Thermohydrodynamic State of a Fully Circumferentially Grooved Journal Bearing. **123,** 525–532
Khonsari, M. M. — (see Keogh, P. S.) **123,** 525–532
_____ (see Mansouri, M.) **123,** 313–323
_____ (see Pascovici, Mircea D.) **123,** 430–433(TB)
Kim, Byung-Jik, and Kim, Kyung-Woong — Thermo-Elastohydrodynamic Analysis of Connecting Rod Bearing in Internal Combustion Engine. **123,** 444–454
Kim, Kyung-Woong — (see Kim, Byung-Jik) **123,** 444–454
Klapperich, C., Komvopoulos, K., and Pruitt, L. — Nanomechanical Properties of Polymers Determined From Nanoindentation Experiments. **123,** 624–631
Knigge, Bernhard, and Talke, Frank E. — Slider Vibration Analysis at Contact Using Time-Frequency Analysis and Wavelet Transforms. **123,** 548–554
Knudsen, James K., and Palmquist, Kenneth E. — The Effect of Porosity on the Head-Media Interface. **123,** 555–560
Kohira, Hidekazu, Tanaka, Hideaki, Matsumoto, Masaaki, and Talke, Frank E. — Investigation of Slider Vibrations Due to Contact With a Smooth Disk Surface. **123,** 616–623
Kohno, K. — (see Yoshimoto, S.) **123,** 501–508
Komanduri, R., and Hou, Z. B. — Tribology in Metal Cutting—Some Thermal Issues. **123,** 799–815

Komvopoulos, K., and Ye, N. — Three-Dimensional Contact Analysis of Elastic-Plastic Layered Media With Fractal Surface Topographies. **123,** 632–640
____ (see Klapperich, C.) **123,** 624–631
____ (see Lu, W.) **123,** 641–650
____ (see Lu, W.) **123,** 717–724
Kong, S., Sharif, K., Evans, H. P., and Snidle, R. W. — Elastohydrodynamics of a Worm Gear Contact. **123,** 268–275
Kotzalas, Michael N., and Harris, Tedric A. — Fatigue Failure Progression in Ball Bearings. **123,** 238–242
Krantz, T. L., Alanou, M. P., Evans, H. P., and Snidle, R. W. — Surface Fatigue Lives of Case-Carburized Gears With an Improved Surface Finish. **123,** 709–716
Kumar, B. V. Rathish — A Segregated SUPG/FEM for THDL Analysis In High Speed Slider Bearings With Injection Effect. **123,** 732–741
Kurtz, Steven M. — (see Giddings, Virginia L.) **123,** 842–847

Lafdi, Khalid — (see Teo, Kia-Moh) **123,** 785–790
Lam, K. B. — (see Zagrodzki, P.) **123,** 699–708
Le, H. R. — (see Sutcliffe, M. P. F.) **123,** 791–798
Lee, Francis — (see Wang, Run-Han) **123,** 561–565
Lenss, Viesturs G. — (see Wassink, Dirk B.) **123,** 404–412
Levitt, Joel A. — (see Wassink, Dirk B.) **123,** 404–412
Liu, Bo — (see Sheng, Gang) **123,** 655(D)
Liu, Geng, Wang, Qian, and Liu, Shuangbiao — A Three-Dimensional Thermal-Mechanical Asperity Contact Model for Two Nominally Flat Surfaces in Contact. **123,** 595–602
Liu, Shuangbiao, Rodgers, Michael J., Wang, Qian, and Keer, Leon M. — A Fast and Effective Method for Transient Thermoelastic Displacement Analyses. **123,** 479–485
____ **, and Wang, Qian** — A Three-Dimensional Thermomechanical Model of Contact Between Non-Conforming Rough Surfaces. **123,** 17–26
____ (see Liu, Geng) **123,** 595–602
Liu, Zhiqiang, Neville, Anne, and Reuben, R. L. — A Numerical Calculation of the Contact Area and Pressure of Real Surfaces in Sliding Wear. **123,** 27–35
Lovell, Michael — (see Morrow, Clint) **123,** 436–440(TB)
Lovell, Michael R. — Evaluation of Critical Interfacial Friction in Cross Wedge Rolling. **123,** 424–429
Lu, W., and Komvopoulos, K. — Nanotribological and Nanomechanical Properties of Ultrathin Amorphous Carbon Films Synthesized by Radio Frequency Sputtering. **123,** 641–650
____ **, and Komvopoulos, K.** — Nanomechanical and Nanotribological Properties of Carbon, Chromium, and Titanium Carbide Ultrathin Films. **123,** 717–724
Lubrecht, A. A. — (see Colin, F.) **123,** 884–887(TB)
Ludema, Kenneth C. — (see Wassink, Dirk B.) **123,** 404–412
Lugt, P. M. — (see Jacod, B.) **123,** 248–253
Luo, Xiangcheng, and Chung, D. D. L. — Tribology of Graphite and Concrete, Studied by Contact Electrical Resistance Measurement During Cyclic Compression. **123,** 682–685

Maiti, R. — (see Raghunandana, K.) **123,** 651–654(TB)
Majumdar, B. C. — (see Raghunandana, K.) **123,** 651–654(TB)
Mansouri, M., Holgerson, M., Khonsari, M. M., and Aung, W. — Thermal and Dynamic Characterization of Wet Clutch Engagement With Provision for Drive Torque. **123,** 313–323
Matsumoto, Hiroyuki — (see Tani, Hiroshi) **123,** 533–540
Matsumoto, K. — (see Hashimoto, H.) **123,** 305–312
Matsumoto, Masaaki — (see Kohira, Hidekazu) **123,** 616–623
Matsuoka, Hiroshige — (see Kato, Takahisa) **123,** 168–174
Matsuoka, Kaoru, Taniguchi, Koji, and Nakakita, Masaru — In-Situ Wear Monitoring of Slider and Disk Using Acoustic Emission. **123,** 175–180
McGrath, G. — (see Pereira, A.) **123,** 742–754
Menon, Aric K. — (see Gupta, B. K.) **123,** 380–387
Miller, Brad A., and Green, Itzhak — Numerical Formulation for the Dynamic Analysis of Spiral-Grooved Gas Face Seals. **123,** 395–403
Mitsuya, Yasunaga, and Ohshima, Yasuji — Error Analysis of Head-Disk Spacing Measurements Made by Using Optical Interferometry. **123,** 358–363
____ **, Zhang, Hedong, and Ishida, Sakiko** — Two-Dimensional Measurements of Lubricant Spreading on Diamond-Like-Carbon Surface Using Image Processing on Fringe Patterns Formed by Michelson Interferometry. **123,** 188–195
Monno, G. — (see Decuzzi, P.) **123,** 865–871
Moore, C. — (see Chang, L.) **123,** 61–66
Mori, Atsunobu — (see Tagawa, Norio) **123,** 151–158
Morrow, Clint, Lovell, Michael, and Deng, Zhi — Numerical Contact Analysis of Transversely Isotropic Coatings: A Cylinder Within a Circumferential Groove. **123,** 436–440(TB)
Muraki, Masayoshi, Sano, Takashi, and Dong, Daming — Rheological Properties of Polyolester Under an EHD Contact in Some Refrigerant Environments. **123,** 54–60

Nakagawa, Haruyasu — (see Hashimoto, Hiromu) **123,** 509–516
Nakakita, Masaru — (see Matsuoka, Kaoru) **123,** 175–180
Nayak, Vasant — (see Wang, Run-Han) **123,** 561–565
Nellis, G. F., Zagarola, M. V., and Sixsmith, H. — Analysis and Test of a Robust Sector Thrust Bearing for a Cryogenic Turboalternator. **123,** 768–776
Neville, Anne — (see Liu, Zhiqiang) **123,** 27–35
Newaz, Golam M. — (see Akalin, Ozgen) **123,** 211–218
____ (see Akalin, Ozgen) **123,** 219–223
Nikas, George K. — Mathematical Analysis of the Entrapment of Solid Spherical Particles in Non-Conformal Contacts. **123,** 83–93
____ An Advanced Model to Study the Possible Thermomechanical Damage of Lubricated Sliding-Rolling Line Contacts From Soft Particles. **123,** 828–841
Nishikawa, H. — (see Yang, P.) **123,** 42–49

Ohshima, Yasuji — (see Mitsuya, Yasunaga) **123,** 358–363
Olson, E. G., and Booker, J. F. — EHD Analysis With Distributed Structural Inertia. **123,** 462–468
Ono, Kyosuke — (see Iida, Kohei) **123,** 159–167

Palmquist, Kenneth E. — (see Knudsen, James K.) **123,** 555–560
Pan, Coda H. T. — Influence of Compressibility on the Helical Viscous Compressor. **123,** 108–117
Pascovici, Mircea D., and Khonsari, M. M. — Scuffing Failure of Hydrodynamic Bearings Due to an Abrasive Contaminant Partially Penetrated in the Bearing Over-Layer. **123,** 430–433(TB)
Peng, Wei, and Bhushan, Bharat — A Numerical Three-Dimensional Model for the Contact of Layered Elastic/Plastic Solids With Rough Surfaces by a Variational Principle. **123,** 330–342
Pereira, A., McGrath, G., and Joseph, D. D. — Flow and Stress Induced Cavitation in a Journal Bearing With Axial Throughput. **123,** 742–754
Podgornik, B., Kalin, M., Vižintin, J., and Vodopivec, F. — Microstructural Changes and Contact Temperatures During Fretting in Steel-Steel Contact. **123,** 670–675
Pruitt, L. — (see Klapperich, C.) **123,** 624–631

Qiu, Sunqing, Zhou, Zhongrong, Dong, Junxiu, and Chen, Guoxu — Preparation of Ni Nanoparticles and Evaluation of Their Tribological Performance as Potential Additives in Oils. **123,** 441–443
Qu, S. — (see Yang, P.) **123,** 42–49
Qu, Shiyue — (see Guo, Feng) **123,** 816–821
____ (see Yang, Peiran) **123,** 36–41

Quinn, A. M. — (see Dwyer-Joyce, R. S.) **123,** 8–16

Raghunandana, K., Majumdar, B. C., and Maiti, R. — Stability of Flexibly Supported Oil Journal Bearings Using Non-Newtonian Lubricants: Linear Perturbation Analysis. **123,** 651–654(TB)
Rajeev, P. T. — (see Goryacheva, I. G.) **123,** 848–856
Reuben, R. L. — (see Liu, Zhiqiang) **123,** 27–35
Rodgers, Michael J. — (see Liu, Shuangbiao) **123,** 479–485
Rogers, Robert J. — (see Tariku, Fitsum A.) **123,** 661–669
Rubin, C. A. — (see Iyer, K.) **123,** 686–698

Sackfield, Anthony — (see Truman, Christopher E.) **123,** 243–247
Sadeghi, Farshid — (see Yu, To Him) **123,** 295–304
_____ (see Zhao, Jiaxin) **123,** 67–74
_____ (see Zhao, Jiaxin) **123,** 75–82
Salant, Richard F. — (see Harp, Susan R.) **123,** 134–143
_____ (see Shi, Fanghui) **123,** 517–524
Salehi, Mohsen, Swanson, Erik, and Heshmat, Hooshang — Thermal Features of Compliant Foil Bearings—Theory and Experiments. **123,** 566–571
San Andrés, Luis — (see Diaz, Sergio) **123,** 125–133
Sano, Takashi — (see Muraki, Masayoshi) **123,** 54–60
Savoulides, N., Breuer, K. S., Jacobson, S., and Ehrich, F. F. — Low-Order Models for Very Short Hybrid Gas Bearings. **123,** 368–375
Sawyer, W. Gregory, and Blanchet, Thierry A. — Vapor-Phase Lubrication in Combined Rolling and Sliding Contacts: Modeling and Experimentation. **123,** 572–581
_____, **and Tichy, John A.** — Lubrication With Granular Flow: Continuum Theory, Particle Simulations, Comparison With Experiment. **123,** 777–784
Schipper, D. J. — (see de Rooij, M. B.) **123,** 469–473
_____ (see de Rooij, M. B.) **123,** 474–478
Schmid, Steven R., and Zhou, Jin — Flow Factors for Lubrication With Emulsions in Ironing. **123,** 283–289(RC)
Segall, A. E. — (see Goldman, R. W.) **123,** 676–681
Sehgal, Rakesh, Gandhi, O. P., and Angra, S. — Wear Evaluation and Ranking of Tribomaterials Using a Hasse Diagram Approach. **123,** 486–493
Sharif, K. — (see Kong, S.) **123,** 268–275
Sheng, Gang, Liu, Bo, and Hua, Wei — Discussion: "Analysis of Stresses Induced by Dynamic Load Head-Disk Contacts" (Fu, Ra-Chang and Bogy, David B., 2000, ASME J. Tribology, **122**, No. 1, pp. 233–237). **123,** 655(D)
Sherif, H. A., and Abu Omar, T. M. — Interface Properties Due to Microslip From Vibration Measurement. **123,** 230–233(TB)
Shi, Fanghui, and Salant, Richard F. — Numerical Study of a Rotary Lip Seal With a Quasi-Random Sealing Surface. **123,** 517–524
Shimizu, Ichiro, Andreasen, Jan L., Bech, Jakob I., and Bay, Niels — Influence of Workpiece Surface Topography on the Mechanisms of Liquid Lubrication in Strip Drawing. **123,** 290–294
Sixsmith, H. — (see Nellis, G. F.) **123,** 768–776
Snidle, R. W. — (see Kong, S.) **123,** 268–275
_____ (see Krantz, T. L.) **123,** 709–716
Spikes, H. A. — (see Glovnea, R. P.) **123,** 254–261
_____ (see Glovnea, R. P.) **123,** 262–267
Sullivan, Mike — (see Wang, Larry Y.) **123,** 376–379
Sutcliffe, M. P. F., Le, H. R., and Ahmed, R. — Modeling of Micro-Pit Evolution in Rolling or Strip-Drawing. **123,** 791–798
_____ (see Ahmed, R.) **123,** 1–7
Swanson, Erik — (see Salehi, Mohsen) **123,** 566–571
Swanson, Gregory — (see Arakere, Nagaraj K.) **123,** 413–423
Szeri, A. Z. — (see Hryniewicz, P.) **123,** 94–100
_____ (see Hryniewicz, P.) **123,** 101–107

Tagawa, Norio, Hayashi, Takefumi, and Mori, Atsunobu — Effects of Moving Three-Dimensional Nano-Textured Disk Surfaces on Thin Film Gas Lubrication Characteristics for Flying Head Slider Bearings in Magnetic Disk Storage. **123,** 151–158
Talke, Frank E. — (see Knigge, Bernhard) **123,** 548–554
_____ (see Kohira, Hidekazu) **123,** 616–623
_____ (see Tan, Sanwu) **123,** 343–349
Tan, Sanwu, and Talke, Frank E. — Numerical and Experimental Investigations of the Head/Tape Interface in a Digital Linear Tape Drive. **123,** 343–349
Tanaka, Hideaki — (see Kohira, Hidekazu) **123,** 616–623
Tanaka, Naoyuki — A New Calculation Method of Hertz Elliptical Contact Pressure. **123,** 887–889
Tang, Wade — (see Wang, Run-Han) **123,** 561–565
Tani, Hiroshi, and Matsumoto, Hiroyuki — Spreading Mechanism of PFPE Lubricant on the Magnetic Disks. **123,** 533–540
Taniguchi, Koji — (see Matsuoka, Kaoru) **123,** 175–180
Tariku, Fitsum A., and Rogers, Robert J. — Improved Dynamic Friction Models for Simulation of One-Dimensional and Two-Dimensional Stick-Slip Motion. **123,** 661–669
Teo, Kia-Moh, and Lafdi, Khalid — Thermal Diffusivity Mapping of Friction Surface Using Photo-Thermal Technique. **123,** 785–790
Thom, R. — (see Chang, L.) **123,** 61–66
Tichy, John A., Editor — Editorial. **123,** 237
Tichy, John A. — (see Sawyer, W. Gregory) **123,** 777–784
Tournerie, B., Danos, J. C., and Frêne, J. — Three-Dimensional Modeling of THD Lubrication in Face Seals. **123,** 196–204
Tripp, John H. — (see Hsiao, Hsing-Sen S.) **123,** 603–607
Truman, Christopher E., Blake, Jonathan J., and Sackfield, Anthony — Analysis of a Self-Tracking Rolling Element Bearing. **123,** 243–247

Venner, C. H. — (see Jacod, B.) **123,** 248–253
Vižintin, J. — (see Podgornik, B.) **123,** 670–675
Vodopivec, F. — (see Podgornik, B.) **123,** 670–675

Wang, Cheng-Chi, and Chen, Cha'o-Kuang — Bifurcation Analysis of Self-Acting Gas Journal Bearings. **123,** 755–767
Wang, Larry Y., Sullivan, Mike, and Chao, Jim — Thermal Asperities Sensitivity to Particles: Methodology and Test Results. **123,** 376–379
Wang, Qian — (see Liu, Geng) **123,** 595–602
_____ (see Liu, Shuangbiao) **123,** 17–26
_____ (see Liu, Shuangbiao) **123,** 479–485
Wang, Run-Han, Nayak, Vasant, Huang, Fu-Ying, Tang, Wade, and Lee, Francis — Head-Disk Dynamics in the Flying, Near Contact, and Contact Regimes. **123,** 561–565
Wassink, Dirk B., Lenss, Viesturs G., Levitt, Joel A., and Ludema, Kenneth C. — Physically Based Modeling of Reciprocating Lip Seal Friction. **123,** 404–412
Watanabe, Souta — (see Kato, Takahisa) **123,** 168–174
Wu, Jiunn-Jong — The Properties of Asperities of Real Surfaces. **123,** 872–883

Yang, P., Qu, S., Kaneta, M., and Nishikawa, H. — Formation of Steady Dimples in Point TEHL Contacts. **123,** 42–49
Yang, Peiran, Qu, Shiyue, Chang, Qiuying, and Guo, Feng — On the Theory of Thermal Elastohydrodynamic Lubrication at High Slide-Roll Ratios—Line Contact Solution. **123,** 36–41
_____ (see Guo, Feng) **123,** 816–821
Ye, N. — (see Komvopoulos, K.) **123,** 632–640
Yoon, Ki-Chan — (see Choi, Dong-Hoon) **123,** 181–187
Yoshimoto, S., and Kohno, K. — Static and Dynamic Characteristics of Aerostatic Circular Porous Thrust Bearings (Effect of the Shape of the Air Supply Area). **123,** 501–508

Young, Kenneth — (see Gupta, B. K.) **123,** 380–387
Yu, To Him, and Sadeghi, Farshid — Groove Effects on Thrust Washer Lubrication. **123,** 295–304

Zagarola, M. V. — (see Nellis, G. F.) **123,** 768–776
Zagrodzki, P., Lam, K. B., Al Bahkali, E., and Barber, J. R. — Nonlinear Transient Behavior of a Sliding System With Frictionally Excited Thermoelastic Instability. **123,** 699–708
Zagrodzki, Przemyslaw — (see Zhao, Wenping) **123,** 224–229
Zhang, Hedong — (see Mitsuya, Yasunaga) **123,** 188–195
Zhang, Lihong — Tribo-Chemical Wear of Amorphous Carbon Overcoats and TiC in Al_2O_3-TiC Sliders. **123,** 324–329
Zhao, Jiaxin, Sadeghi, Farshid, and Hoeprich, Michael H. — Analysis of EHL Circular Contact Start Up: Part I—Mixed Contact Model With Pressure and Film Thickness Results. **123,** 67–74
____, **Sadeghi, Farshid, and Hoeprich, Michael H.** — Analysis of EHL Circular Contact Start Up: Part II—Surface Temperature Rise Model and Results. **123,** 75–82
Zhao, Wenping, and Zagrodzki, Przemyslaw — Study of Wet Friction Material Test Under Severe Thermal and Mechanical Loading ("Bump Test"). **123,** 224–229
Zhao, Yongwu, and Chang, L. — A Model of Asperity Interactions in Elastic-Plastic Contact of Rough Surfaces. **123,** 857–864
____ (see Chang, L.) **123,** 61–66
Zhou, Jin — (see Schmid, Steven R.) **123,** 283–289(RC)
Zhou, Zhongrong — (see Qiu, Sunqing) **123,** 441–443